

National Institute
of Standards and Technology



National Voluntary
Laboratory Accreditation Program

ISO/IEC 17025:1999
ISO 9002:1994

Scope of Accreditation



Revised 9/16/2003

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CALIBRATION LABORATORIES

NVLAP LAB CODE 200414-0

MAINE DEPARTMENT OF AGRICULTURE METROLOGY LABORATORY

28 State House Station Div. QA&R

Augusta, ME 04333-0028

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MECHANICAL

NVLAP Code: 20/M08

Mass - Metric

Range	Best Uncertainty (\pm) in mg ^{note 1}	Remarks
30 kg	23.73	Echelon I
25 kg	21.33	Echelon I
20 kg	19.86	Echelon I
10 kg	2.87	Echelon I
5 kg	1.72	Echelon I
4 kg	1.56	Echelon I
3 kg	1.38	Echelon I
2 kg	1.10	Echelon I
1 kg	0.060	Echelon I
500 g	0.032	Echelon I
300 g	0.022	Echelon I

June 30, 2004

A handwritten signature in black ink, appearing to read "Wm R. Mahl".

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200 g	0.017	Echelon I
100 g	0.017	Echelon I
50 g	0.0093	Echelon I
30 g	0.0065	Echelon I
20 g	0.0051	Echelon I
10 g	0.0051	Echelon I
5 g	0.0032	Echelon I
3 g	0.0024	Echelon I
2 g	0.0021	Echelon I
1 g	0.0023	Echelon I
500 mg	0.0014	Echelon I
300 mg	0.0010	Echelon I
200 mg	0.00087	Echelon I
100 mg	0.00093	Echelon I
50 mg	0.00073	Echelon I
30 mg	0.00061	Echelon I
20 mg	0.00058	Echelon I

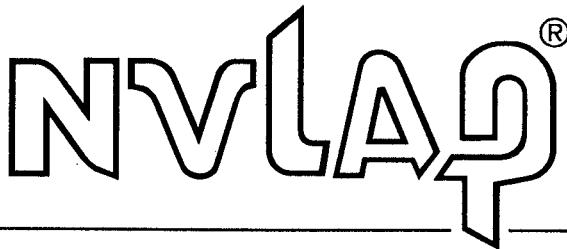
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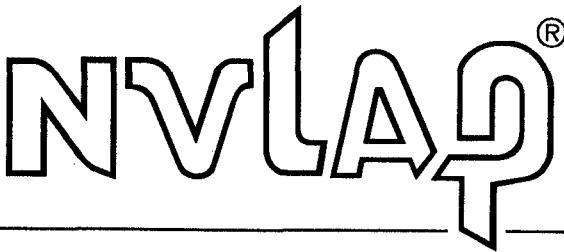
10 mg	0.00067	Echelon I
5 mg	0.00048	Echelon I
3 mg	0.00040	Echelon I
2 mg	0.00038	Echelon I
1 mg	0.00043	Echelon I
30 kg*	24	Echelon II
25 kg*	21	Echelon II
20 kg*	20	Echelon II
10 kg*	2.9	Echelon II
5 kg*	1.7	Echelon II
4 kg*	1.7	Echelon II
3 kg*	1.4	Echelon II
2 kg*	1.1	Echelon II
1 kg	0.073	Echelon II
500 g	0.052	Echelon II
300 g	0.046	Echelon II

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200 g	0.044	Echelon II
100 g	0.023	Echelon II
50 g	0.018	Echelon II
30 g	0.017	Echelon II
20 g	0.016	Echelon II
10 g	0.0065	Echelon II
5 g	0.0054	Echelon II
3 g	0.0050	Echelon II
2 g	0.0049	Echelon II
1 g	0.0050	Echelon II
500 mg	0.0018	Echelon II
300 mg	0.0015	Echelon II
200 mg	0.0015	Echelon II
100 mg	0.0014	Echelon II
50 mg	0.0013	Echelon II
30 mg	0.0012	Echelon II
20 mg	0.0012	Echelon II

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10 mg	0.0010	Echelon II
5 mg	0.00085	Echelon II
3 mg	0.00081	Echelon II
2 mg	0.00080	Echelon II
1 mg	0.00081	Echelon II
30 kg	78	Echelon III
25 kg	76	Echelon III
20 kg	75	Echelon III
10 kg	7.4	Echelon III
5 kg	4.3	Echelon III
3 kg	3.1	Echelon III
2 kg	2.6	Echelon III
1 kg	2.1	Echelon III
500 g	2.0	Echelon III
300 g	2.0	Echelon III
200 g	2.0	Echelon III

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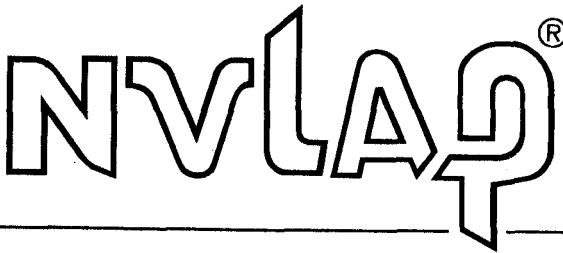
100 g	0.13	Echelon III
50 g	0.12	Echelon III
30 g	0.12	Echelon III
20 g	0.12	Echelon III
10 g	0.029	Echelon III
5 g	0.028	Echelon III
3 g	0.028	Echelon III
2 g	0.028	Echelon III
1 g	0.025	Echelon III
500 mg	0.025	Echelon III
300 mg	0.024	Echelon III
200 mg	0.024	Echelon III
100 mg	0.025	Echelon III
50 mg	0.025	Echelon III
30 mg	0.025	Echelon III
20 mg	0.025	Echelon III
10 mg	0.027	Echelon III

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5 mg	0.027	Echelon III
3 mg	0.027	Echelon III
2 mg	0.027	Echelon III
1 mg	0.027	Echelon III

NVLAP Code: 20/M08

Mass - Avoirdupois

Range in lbs	Best Uncertainty (\pm) in mg ^{note 1}	Remarks
1000	1161	Echelon II
500	707	Echelon II
50	31	Echelon II
30	22	Echelon II
25	21	Echelon II
20	13	Echelon II
10	6.4	Echelon II
5	3.3	Echelon II
3	2.1	Echelon II
2	1.4	Echelon II

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1	0.068	Echelon II
0.5	0.036	Echelon II
0.3	0.025	Echelon II
0.2	0.021	Echelon II
0.1	0.020	Echelon II
0.05	0.011	Echelon II
0.03	0.0071	Echelon II
0.02	0.0057	Echelon II
0.01	0.0051	Echelon II
0.005	0.0032	Echelon II
0.003	0.0024	Echelon II
0.002	0.0021	Echelon II
0.001	0.0023	Echelon II
0.005	0.0014	Echelon II
0.003	0.0010	Echelon II
0.002	0.00088	Echelon II
0.001	0.00093	Echelon II

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0.00005	0.00072	Echelon II
0.00003	0.00060	Echelon II
0.00002	0.00059	Echelon II
0.000010	0.00067	Echelon II
0.000005	0.00048	Echelon II
0.000003	0.00040	Echelon II
0.000002	0.00038	Echelon II
0.000001	0.00043	Echelon II
1000	2806	Echelon III
500	2003	Echelon III
100	103	Echelon III
50	84	Echelon III
30	80	Echelon III
25	80	Echelon III
20	78	Echelon III
10	6.9	Echelon III

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5	4.1	Echelon III
3	3.2	Echelon III
2	2.8	Echelon III
1	1.8	Echelon III
0.5	1.8	Echelon III
0.3	0.18	Echelon III
0.2	0.18	Echelon III
0.1	0.18	Echelon III
0.05	0.18	Echelon III
0.03	0.18	Echelon III
0.02	0.18	Echelon III
0.01	0.075	Echelon III
0.005	0.077	Echelon III
0.003	0.076	Echelon III
0.002	0.075	Echelon III
0.001	0.075	Echelon III

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Mass II Avoirdupois, Ounce Weights

<i>Range in ounces</i>	<i>Best Uncertainty (\pm) in mg^{note 1}</i>	<i>Remarks</i>
4	0.049	Echelon II
2	0.033	Echelon II
1	0.024	Echelon II
1/2	0.018	Echelon II
1/4	0.012	Echelon II
1/8	0.0084	Echelon II
1/16	0.0067	Echelon II
1/31	0.0061	Echelon II

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Mass III Avoirdupois, Ounce Weights

<i>Range in ounces</i>	<i>Best Uncertainty (\pm) in mg^{note 1}</i>	<i>Remarks</i>
4	0.21	Echelon III
2	0.20	Echelon III
1	0.061	Echelon III
1/2	0.059	Echelon III
1/4	0.057	Echelon III
1/8	0.056	Echelon III
1/16	0.056	Echelon III
1/32	0.056	Echelon III

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NVLAP Code: 20/M12

Volume

Range in gallons	Best Uncertainty (\pm) in in^3 ^{note 1}	Remarks
5	0.13	Gravimetric
5	0.35	Volume Transfer
25	1.4	Volume Transfer
50	3.2	Volume Transfer
100	2.7	Volume Transfer
200	3.1	Volume Transfer
300	7.8	Volume Transfer
500	12	Volume Transfer
1000	27	Volume Transfer
1500	38	Volume Transfer

1. Represents an expanded uncertainty using a coverage factor, k=2.

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